

## Product datasheet for **TP309548**

### Peroxiredoxin 2 (PRDX2) (NM\_181738) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human peroxiredoxin 2 (PRDX2), nuclear gene encoding mitochondrial protein, transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209548 representing NM_181738 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MASGNARIGKPAPDFKATAVVDGAFKEVKLSYKGYWVLFYPLDFTFVCPTETIIAFSNRAEDFRKLGCEVLGVSVDTSQFTHLAWYEQGPKREVAAKLTPSGPSSVASWPLLNLWNLRFPIVKIMETLPPKSLRMMTVISI
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	15.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_859428</a>
Locus ID:	7001
UniProt ID:	<a href="#">P32119</a>



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RefSeq Size: 710

Cytogenetics: 19p13.13

RefSeq ORF: 426

Synonyms: NKEFB; PRP; PRX2; PRXII; PTX1; TDPX1; TPX1; TSA

**Summary:** This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified PRDX2 protein (Cat# TP309548). The protein was produced from HEK293T cells transfected with PRDX2 cDNA clone (Cat# [RC209548]) using MegaTran 2.0 (Cat# [TT210002]).